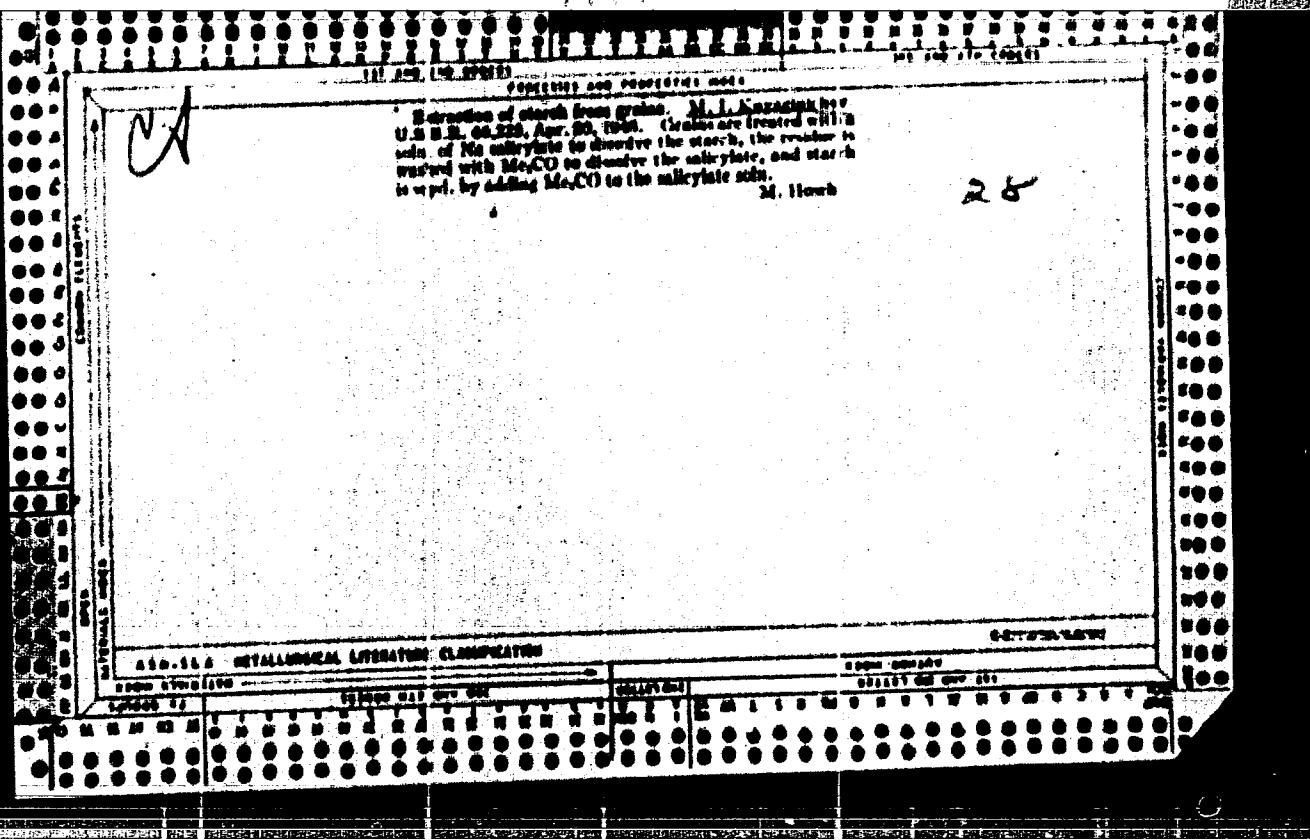


Ca KNYAGINICHESKAYA, M. I.

Wheat species characterized according to activity and quality of amylose in their grain. M. I. Knyaginicheskaya, L. P. Matuz and Yu. K. Pashkova. *Compet. rev. obz.* N. F. R. S. S. 27, No. 2 (1980) (in English). Among the hard wheats with 21, 20 and 14 chromosomes, those species that are commonly cultivated contain much more amylose and are higher in total sugar than the rarer species. The amylose activity is not always higher in hard wheats than in soft, being, e. g., 314 mg. in the grain of *Triticum spelta var. gr. Tundatum* and only 27% mg. in the grain of *Triticum durum* s. *var. compacta*. Both the temp. coeff. and the activation energy of the starch hydrolysis enzymes are much higher in the 21 than in the 20-chromosome winter wheat. At the stage of milky ripeness the hard wheats have a short temp. coeff. and a lower activation energy. Such increased compatibility in the 21-chromosome winter hybrid obtained by crossing the hard wheat with yellow is of interest.

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNYAGINICHESK, M. I.

Knyaginiches, M. I. "Use of the variability of albumens in plant growth." In symposium: Biokhimiya kul't. rasteniy, Vol. VIII. Moscow-Leningrad, 1948, p. 101-17 - Bibliog: 24 items

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

KNYAGINICHESKAYA, N. I.

Knyaginichesky, N. I. "Biochemistry methods in selection,"
In symposium: Biokhimiya kul't. rasteniy, Vol. VIII,
Moscow-Leningrad, 1948, p. 696-705 - Siblior: p. 704-05

SO: U-3264, 10 April 1953, (Letomis 'Zhurnal 'nykh Statey, No. 3, 1949)

"APPROVED FOR RELEASE: 06/19/2000

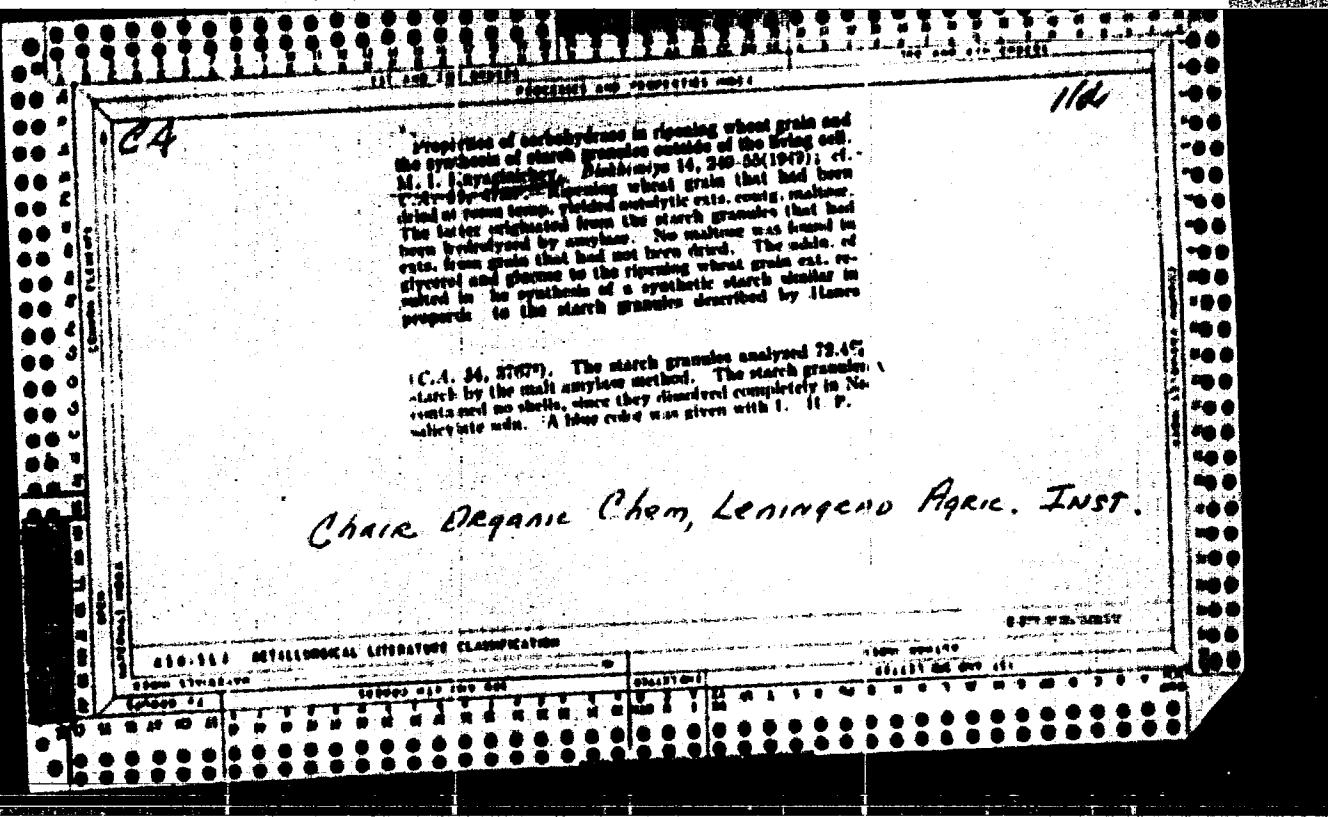
CIA-RDP86-00513R000723330005-8

KNYAGINICHÉV, M.I.; SPASSKAYA, Ye.V.

Preparation of a product having the flavor of rye malt from bolted rye flour. Patent U.S.S.R. 77,165, Dec. 31, 1949.
(CA 47 no.19:10150 '53)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"



БИОХИМИКИН, М.Л., professor; ЛЕОНТЬЕВ, В.М., redaktor; ВОРОНЕЦКАЯ, Л.В.,
tekhnicheskiy redaktor

[Biochemistry of wheat; quality of wheat in relation to variety and
method of cultivation] Biokhimiia pshenitay; kachestvo zerna
pshenitay v zavisimosti ot sorta i usloviy vospredlyvanija. Moskva,
Gos. izd-vo selkhoz. lit-ry, 1951. 415 p. (MIRA 10:1)
(Wheat)

KNYAG'INICHÉV, M. I.

Knyag'inichev, M. I.

"Biochemistry of wheat." Reviewed by Acad. I. V. Yakushkin, S. I. Tsvetin.
Sov. agron. 10 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

ИВАГОНОВ, М. И.

The acid content of rice dough and bread was fully prepared. M. I. Kryzhanov; P. M. Plotnikov, Ye. N. Bolkhovitina, K. O. Basovskaya, and O. V. Presnichenko (Leningrad Technol. Inst. Food Ind.), Biokhimiya 19, 60-9 (1964).—At higher temp., the lactic acid content of dough and bread increases, the volatile acids in bread decrease. Loss of dry substances in the dough in the process of fermentation at 34-36° is lower than at 28-30°, which is the temp. used in breadmaking industry. B. Baka

Knyaginichko, M.T.

U.S.S.R.

Question of the coating of starch grains in relation to the properties of starch. M. I. Knyaginichko, V. P. Dvurechenskaya, and T. A. Makarova (Zhurnal Polimernaya Promst., Leningrad), *Biofizika* 20, 110-12 (1975).—The coating membrane of potato starch grains can be destroyed at room temp with dil. solns. of H₂SO₄, HCl, KClO₃ or by heating the dry starch to 150°, without affecting the starch granules as such. Na alginate is insol. in water and forms a complex with the starch. The adhesive properties of starch depend largely on the outer coating of the granules. The degree of hydrolysis by α -amylase is the same in starch prep. from starchy roots with destroyed or original outer coating, indicating basic difference between the substances of the outer coatings and the amylopectin. The starch of the surface layers of the potato granules is not hydrolyzed by α -amylase to the same time of the av. density.

B. S. Levine

KNYAG-NICHEN M. I.

Viscosity of starch preparations in aqueous and ethylene glycol solutions. M. I. Knyag-nichen and T. M. Shchitnikova (Tachau). Izv. Akad. Nauk SSSR, Ser. Khim., No. 10, 20-23 (1955).—The viscosity η of potato starch gelatinized in the usual way was not reproducible. A reproducible η was obtained by wetting 0.3 g. starch with 4 ml. H₂O, adding with 50 ml. boiling H₂O, cooking for 3 min., diluting with warm H₂O to 100 ml., and shaking for 15 min. at 5 oscillations/min. The η of this resulting liquid at 25° was 2.7-3.8 times that of H₂O, depending on the origin of starch; the starch of Soja corn and grain had the highest η . Reproducible η was obtained also by treating starch with N NaOH at room temp.; the η was a little lower than η in H₂O; higher and lower concns. of NaOH did not yield reproducible starch soln. J. J. Lberman

(2)

A 10 g sample (of leaven, dough, liquid yeast,

Card 1/3

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

USSR/Chemical Technology - Chemical Product and Their Application. Food Industry.

I-13

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2937

bread) is ground with 10 ml water and is then transferred, with addition of 10-20 ml of water, into a measuring flask (100 ml). A suspension made from Barnahteyn's solution, prepared from 15 ml of 1-st solution (60 g CoSO₄ in 1 liter of water) and 15 ml of 2-nd solution (12.5 g NaOH in 1 liter of water), is poured into the measuring flask containing the sample, the mixture is stirred, diluted with water to the mark, stirred again, allowed to settle for 2-3 minutes, and is then filtered twice through cotton wool. 20 ml of the filtrate, when rye flour dough, leaven, rye or wheat bread is analyzed, or 10 ml of the filtrate, when liquid yeast or wheat flour dough is analyzed, are placed in a 50-100 ml distillation flask. 2/3 of the flask contents are distilled over, within 15-20 minutes, into a test tube containing 10 ml of a titrated solution of K₂Cr₂O₇ and 5 ml diluted H₂SO₄.

Card 2/3

YERMAKOV, A.K., red.; KNYAGINICHEN, M.I., red.; MURRI, I.K., red.; NILOV,
S.N., red.; CHUMAYEVA, Z.V., tekhn.red.

[Biochemistry of cultivated plants] Biokhimiia kul'turnykh rastenii.
Izd. 2., perer. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry,
Vol. 1. [Cereal and grain grains] Khlebnye i krupianye kul'tury.
1958. 700 p. (MIRA 11:12)

(Grain)

NIKOSHNICHENKO, R.L., KNYAGINICHENKO, N.I.

Method of making rye bread by fermenting the leaven and dough at
an increased temperature. Izv. vys. shchel. svy.; pishch. tekhn.
no. 2:43-46 '58. (MIRA 17(10))

1. Leningradskiy tekhnologicheskiy institut pishchevoy
promyshlennosti, Kafedra tekhnologii khlebopekarnogo proizvodstva.
(Bread--Bacteriology)

KHAGINICHIV, M.I.; MIROSHNICHENKO, R.L.

Effect of moisture content and temperature on the formation of
gas and accumulation of acid in lactic acid ferments without
yeast. Izv. vys. ucheb. zav.; pishch. tekhn. no.3:53-58 '58.

1. Leningradskiy tekhnologicheskiy institut pishchevoy pro-
myshlennosti, Kafedra tekhnologii khlebopekarnogo proizvodstva.
(Lactic acid bacteria)

KNYAGINICHENK, M.I.; MIROSHNICHENKO, R.L.

Effect of the medium in the cultivation of lactic acid bacteria on
their fermentation force in nonyeast leavening. Izv.vys.ucheb.zav.
pishch.tekh. no.4:69-73 '58. (MIRA 11:11)

1. Leningradskiy tekhnologicheskiy institut pishchevoy promysh-
lennosti, Kafedra organicheskoy khimii; Kafedra tekhnologii khlebo-
pekarnogo proizvodstva.
(Fermentation) (Lactic acid bacteria)

MIROSHNICHENKO, R.L.; KNYAGINICHENK, M.I.

Fermentation strength of a yeastless lactic-acid leaven kept over a prolonged period. Izv.vys.ucheb.zav.; pishch.tekh. no.5:43-47 '58. (MIRA 11:12)

1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra tekhnologii khlebopekarnogo proizvodstva. (Fermentation). (Bread)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNYAGINICHES, M. I. and BOLKHOVITINA, Yu. R.

"The Properties of Starch in Salt Solutions."

report presented at the Section on Colloid Chemistry, VIII Mendeleev Conference of
General and Applied Chemistry, Moscow, 16-23 March 1959.
(Koll. Zhur. v. 21, No. 4, pp. 509-511)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

17(3)
AUTHORS:

Knyaginichev, M. I., Bolkhovitina, Yu. R.

SOV/20-126-5-61/69

TITLE:

Hydrogen Bonds and the Properties of the Starch (Vodorodnyye
svyazi i svoystva krakhmala)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1129-1131
(USSR)

ABSTRACT:

The properties mentioned in the title cannot always be explained from the standpoint of the familiar opinions of the nature of this polysaccharide. In the last years the ideas being combined with the term of hydrogen bonds have become important. By these bonds the physical properties (hydratation, viscosity etc) of the solutions and the state of starch as a solid are tried to be explained (Refs 1-3). But the interrelation between the said properties and the mentioned bonds is determined more or less speculatively. Since no papers combining these signs together experimentally could be found, tests with natural and modified starch preparations were carried out. The flushing-out of the starch of ordinary and waxy corn, potatoes and barley was carried out according to reference 8. The modified preparations were produced by treatment with 2 n H₂SO₄ at room temperature

Card 1/3

Hydrogen Bonds and the Properties of the Starch

SOV/20-126-5-61/69

during 4-7 days until the starch grains were soluble in a 30% sodium salicylate (Ref 9). For the spectroscopic investigation a method of starch films was elaborated. The test results are given in figure 1. The absorption curve shows that the natural and modified starch preparations of the mentioned plants possess an equally strongly expressed broad band in the zone 2.8-3.1 μ being characteristic of hydrogen bonds. The viscosity of the modified starch, however, differs strongly from this of the natural starch, as could be proved. This must be explained by the decrease in the molecular weight (Table 1). It shall be mentioned that at the glucose beside 3 also one absorption band is visible being characteristic of hydrogen bonds (Ref 11). Consequently the viscosity of the starch solutions depends on the molecular weight and not on the hydrogen bonds. Obviously it is not possible to explain by the properties of the hydrogen bonds the physical properties of the starch as has been very often tried up till now. There are 1 figure, 1 table, and 11 references, 3 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut pishchevoy
Card 2/3 promyshlennosti (Leningrad Technological Institute of Food

KNYAGINCHEV, M.I.; BOLKHOVITINA, Yu.R.

Specific rotation of starch in different solvents. Izv.vys.ucpeb.
zav.; pishch.tekh. no.1:37-42 '60. (MIRA 13:6)

1. Kafedra organicheskoy khimii Leningradskogo tekhnologicheskogo
instituta pishchevoy promyshlennosti.
(Starch) (Solvents)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNYAGINICHESKAYA, M. I., LYAPUNOVA, G. M., CHERNYAK, B. I., and CHERVINSKAYA, N. S.
(USSR)

"The Change in the Properties of Starch under the Influence of
Humidity and Temperature."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

KNYAGINICHEV, N.I., CHLOVESHKO, YE. I., (USSR)

"Properties of Acid-Treated Starch."

Report presented at the 5th Int'l. Biochemistry Congress,
Moscow, 10-16 Aug. 1951.

YEGOROVA, Aleksandra Georgiyevna; KNIAGINICHEV, M.I., doktor khim.
nauk, prof., red.; FREGEN, D.P., red. izd-va; GVIKTS, V.L.,
tekhn. red.

[Nutritional value of bread and the preservation of its fresh-
ness; transcript of a report made at a seminar of representa-
tives of the bakery industry in the Leningrad House of Sci-
entific and Technical Propaganda] Piabchevaja tsennost' khleba
i sokhranenie ego svashesti; stenogramma doklada, prochitannogo
v LDNTP na seminare rabotnikov khlebopakarnoi promyshlennosti.
Pod red. M.I. Kniaginicheva. Leningrad, Leningr. dom nauchno-
tekhn. propagandy, 1962. 57 p. (MIRA 15:9)

(Bread)

KNYAGINICHESKAYA, M.I.; BOLKHOVITINA, Yu.R.; Prinimali uchastiye: MIASOEDOVA, T.V.
PAKHOMOVA, V.F.

Specific rotation of starch and the products of its decomposition
during hydrolysis with solutions of hydrochloric acid and aluminum
chloride. Biokhimia 27 no.1:9-14 Ja-F '62. (MIRA 1585)

1. Technological Institute of the Refrigeration Industry, Leningrad.
(STARCH) (HYDROCHLORIC ACID) (ALUMINUM CHLORIDE)

KINYGINICHESKII, M.I., doktor biologicheskikh nauk; BOLHOVITINA, Yu.E.,
nauchnyy sotrudnik

Problems of the structure and properties of starch that should
be discussed. Trudy VNIIZ no. 38:3-23 '60. (MIRA 15:12)

1. Leningradskiy tekhnologicheskiy institut pishchevoy
promyshlennosti i Leningradskiy tekhnologicheskiy institut
khodolil'noy promyshlennosti.
(Starch)

RUKOSUYEV, Andrey Nikolayevich; KNYAGINICHESKAYA, M.I., doktor tekhn.
nauk, prof., retsensent; SHIRNOVA, V.V., kand. tekhn. nauk,
dots., retsensent; AYRIKEVA, N.S., red.; SINEL'NIKOVA,
TS.B., red.; VOLKOVA, V.O., tekhn. red.

[Commercial study of food products; introduction; grain,
flour and bakery product's] Tovarovedenie prodovol'stvennykh
tovarov; vvedenie, zerno-mashnye tovary. Izd.2., dop. 1
perer. Moskva, Gostorgisdat, 1963. 408 p. (MIRA 17:2)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNYAGINICHEV, N.I.

Forecasting maximum floods for the small rivers of Omsk
Province during the next few years. Iss. Omsk. otd. Geog.
ob-vn no.5:23-30 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

BITEKHTINA, V.A.; ZYBIN, A.S.; KNYAGINICHEV, N.I.

Developing fisheries on the Ik-Saltain-Tenis Lake system.
Inv. Omsk. otd. Geog. ob-va no. 5:131-136 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

KNYAGINICHESKII, M. I., KOMAROV, V. I.

Determining wheat flour quality by its swelling in acids.
Inv. vys. ucheb. sav.; pishch. tekhn. no.6:132-135 '63.
(MIRA 17:3)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy
promyshlennosti i Vsesoyuznyy institut rasteniyevodstva.

KNYAGINICHÉV, M.I.; KOMAROV, V.I.

Effect of concentration and of the acids pH on the swelling
of flours with strong and weak gluten. Biokhim. ser. 1
khlebopech. no. 7:180-194 '64. (MIRA 17:9)

1. Leningradskiy tekhnologicheeskiy institut kholodil'noy
promyshlennosti i Vsesoyuznyy institut rasteniyevodstva.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNYAGINICHEV, M.I., prof.

Nature of bread staling and the preservation of its freshness.
Zhur. VNIKO 10 no.3:277-286 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

KNYAGINICHEV, N.I.

Determining norms for the annual runoff on the basis of its maximum rate; as exemplified by the southern part of Omsk Province. Izv. Omsk. otd. Geog. ob-va ro,6:27-32 '64.

Popular knowledge of dam construction without using stone and gravel. Ibid.8:127-128

The Third Academic and Production Conference on the Problems of Hydraulic Engineering Construction in Siberia. Ibid.8:135 (MIRA 18:9)

the first time I ever saw him, he was a small, thin, pale boy, with a very serious expression, and a pair of large, dark eyes which seemed to look right through me. He had a very decided nose, and his hair was dark and wavy. He was dressed in a simple white shirt and breeches, and a blue waistcoat over a blue jacket. He was standing in front of a large window, looking out upon a garden. He was holding a small book in his hand, and was reading it intently. He was wearing a small cap, and had a small pocket watch chain around his neck. He was wearing a small pocket watch chain around his neck.

the first time in the history of the world, the people of the United States have been called upon to decide whether they will submit to the law of force, or the law of the Constitution. We have now an opportunity, unprecedented in the history of the world, to decide whether we will submit to the law of force, or the law of the Constitution.

M. K. KALINOWSKY AND G. L. DERKUS, JR., DEPT. OF CHEM.

acid being equiv. to 4.8 mg. tartaric + citric acids. It was
found that the content of these acids in various kinds of
rye and wheat breads varies widely. M. K. K.

KNYAGINICHEV, N.I.

Determining the long-term average discharge of the uninvestigated rivers of the eastern foothills of the Southern Urals from the historical discharge and the spillway area. Vop. vod. khos. i gidrol. Urala no.2 29-35 '63. (MIRA-18;3)

KNYAGININ, O.; LENGA, V.

Selecting the most satisfactory size and shape of riser depending
on the solidification time length of the casting. Lit. proizv.
no. 5132-36 My '61. (MIRA 14:5)
(Foundry)

BLINOV, V.A.; BASOVA, L.V.; ANISHCHUK, Ye.N.; KNYAGININA, I.P.;
RUMYANTSEVA, L.P.; PODSHIBYAKINA, N.D.

Emulsion method of dyeing wool, rayon and synthetic
fibers. Tekst.prom. 22 no.10:57-60 O '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut organiceskikh
poluproduktov i krasiteley (NIOPIK) (for Blinov, Basova,
Anishchuk, Knyaginina, Rumyantseva). 2. Nachal'nik
khimicheskoy laboratorii Kompleksnogo nauchno-issledovatel'skogo
instituta legkoy promyshlennosti (KNIILP) Latviyskoy SSR
(for Podshibyakina).

(Dyes and dyeing—Textile fibers)

KHAGININA, V.O.; KEMKOVA, O.O.

Compounds of low solubility formed between uranium and lower
phosphorus acids. Radichimia 1 no.6:665-667 '59.
(MIRA 13:4)
(Uranium compounds) (Phosphorus acids)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KHONITSKIY, Petr Grigor'evich.

My favorite mine. Moscow, Ugletekhnidat, 1951. 50 p. (Biblioteka
stavhanovska-novatora ugol'noi promyshlennosti) (55-30611)

TM808-R92M56

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

KRYASHCHINSKIY, V. V.

Novaia ruchnaiia pnevmaticheskaiia shlifoval'nsia mashina ShR-06. (Vestn.
Mash., 1951, no. 3, p. 75)
Refers to "Pnevmatika" plant in Leningrad.

The new hand-operated pneumatic polishing machine ShR-06.
DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

KNIAZHCINSKIY, V. V.

Novaya model' pnevmaticheskoi overlit'noi mashiny tipa RS-8. (Vestn.
Mash., 1951, no. 7, p. 66)
Refers to "Pnevmatika" plant in Leningrad.

New model of a pneumatic drilling machine of the RS-8 type.

DLC: TM4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

S/108/63/018/001/002/011
D201/D307

AUTHORS: Yakhinson, B.I. and Knyaz', A.I., Members of the Society (see Association)

TITLE: Order of linear electrical network

PERIODICAL: Radiotekhnika, v. 18, no. 1, 1963, 12-18

TEXT: The authors consider the possibility of determining the order of a linear electrical network from its configuration and the properties of its elements. Since the highest order of every mesh is 2, the network order cannot be greater than twice the number of its degrees of freedom. The suggested method of determining the network is therefore as follows: if the network has a nodes and m branches with arbitrary combinations of RLC elements (with no two like elements present in any of the branches) then the operator Kirchhoff equations of the network in matrix form will have $m-a+1$ equations from the 2nd Kirchhoff's law and $a-1$ from the first. Since the order of the system matrix cannot exceed the sum of the highest orders of every column, the maximum order of the matrix is shown to

Card 1/2

Order of linear electrical network

S/108/63/018/001/002/011
D201/D307

be equal to the total number of the reactive elements in the network.
The method is used for determining the order of two simple filter
networks and of a more complex one. There are 4 figures.

ASSOCIATION: Nauchno-tehnicheskoye obshchestvo radiotekhniki i
elektrosvyazi im. A.S. Popova (Scientific and Tech-
nical Society of Radio Engineering and Electrical
Communications imeni A.S. Popov) / Abstracter's
note: Name of Association taken from first page of
journal

SUBMITTED: September 6, 1961 (initially)
December 30, 1961 (after revision)

Card 2/2

YAKHINSON, B.I.; KHYAZ', A.I.

Concerning the order of a linear electrical network. Radiotekhnika
18 no.1;12-18 Ja '62.
(MIRA 16:2)

1. Deystvital'nyye chleny Nauchno-tehnicheskogo obshchestva
radiotekhniki i elektrorasyazi imeni Popova.
(Electric networks)

KOVALENKO, D.G., prof.; ENYAZETSKAYA, Ye.I., kand. med. nauk

Pulmonary complications following thoracic surgery in spinal
tuberculosis. Probl. tub. 41 no.9:21-25 '63 (MIRA 174)

1. Is Leningradskogo instituta khirurgicheskogo tuberkuleza
(dir. prof. D.K.Khokhlov) nauchnyy rukovoditel' - deystvitel'-
nyy chlen AMN SSSR, P.G. Kornev).

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNYAZEV, A.

KNYAZEV, A., brigadir plotnikov.

**Builders overfulfill their norms. Stroitel' no.12:19 D '57.
(MIRA 11:2)**

**1. Trest No.19 Glavleningradstroya.
(Building)**

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNYAKH, A., insbener.

Automatic equipment on ships of the river fleet. Mor. i rech.
fleet 14 no.11:18-22 N 154.
(MLPA 7:11)
(Ships--Equipment and supplies)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNYAZEV, A.A.

Quality of A-92/6 electric meters. From energ. 11 no. 4:35 Ap '56.
(Electric meters) (MIRA 9:7)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

KNYAZEV, A. A.

Knyazev, A. A. "Culture of the lignaceous peony in the conditions of Leningrad,"
Byulleten' Glav. botan. sada, Issue 1, 1948, p. 73-75

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

KNYAZEV, A. A.

37424. Peon Drevovidnyy i Ego Kul'tura V Usloviyakh Leningrada. V Sb:
Zelenoye Stroit-Vo. L., 1949, s. 79-81.-- Bibliogr: 11 Nasv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

NASTENKO, N., MALASHKIN, O., ~~KRAZEV, A.~~

Diesel Motor

Standardized fuel pump for tractor diesel engines. MTs, 11, no. 12, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 195², Unc1.

KNYAZEV, A. A., Cand. Tech. Sci -- (diss) "On the problem
of the operations of cultivator-plows." Saratov, 1957. 18 pp with
graphs. (Min Agr USSR, Saratov Agr Inst), 150 copies. (KL.
9-58, 117)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KYAZIV. A.A. Dushener.

Tractive resistance of scarifying plows. Sel'khozmashina no. 2:7-9
F '57. (MLRA 10:4)

(Plows)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

KHYZHEV, Aleksandr Andreyevich, kand.tekhn.nauk; KHRAMOV, Ivan
Nikolayevich, kand.tekhn.nauk; ANDROYEV, P., red.; LUKASHENICH, V.,
tekhn.red.

[Harvesting grain in separate stages] Razdel'naia uborka khlebov.
Saratov, Saratovskoe knishnoe izd-vo, 1960. 77 p.
(XIRA 14:2)

(Grain--Harvesting)

KISELEV, Gennadiy Yel'liyevich; OSTAPENKO, V.I., kand. biol. nauk,
red.; KNYAZEV, A.A., red.; VOROB'YEV, D.M., red.;
LEONTOVICH, O.N., kand. arkhit. nauk, red.; SAVZDARO,
V.E., red.; TAIROVA, V.N., red.

[Floriculture] TSvetovodstvo. Izd.3., ispr. i dop. Mo-
skva, Izd-vo "Kolos," 1964. 983 p. (MIRA 17:8)

1. Starshiy sadovod Botanicheskogo sada Botanicheskogo in-
stituta im. V.L.Komarova (for Knyazev).
2. Starshiy sado-
vod Tresta ob"yedinennogo sadovodstva (for Vorob'yev, Riga).
3. Direktor tekhnikuma zelenogo stroitel'stva, Khar'kov (for
Leontovich).

KNYAZEV, A.A.

Hillside tillage. Zemledelje 26 no.9:37-40 S '64.
(MIRA 17:11)

1. Kuybyshevskiy sel'skokhozyaystvennyy institut.

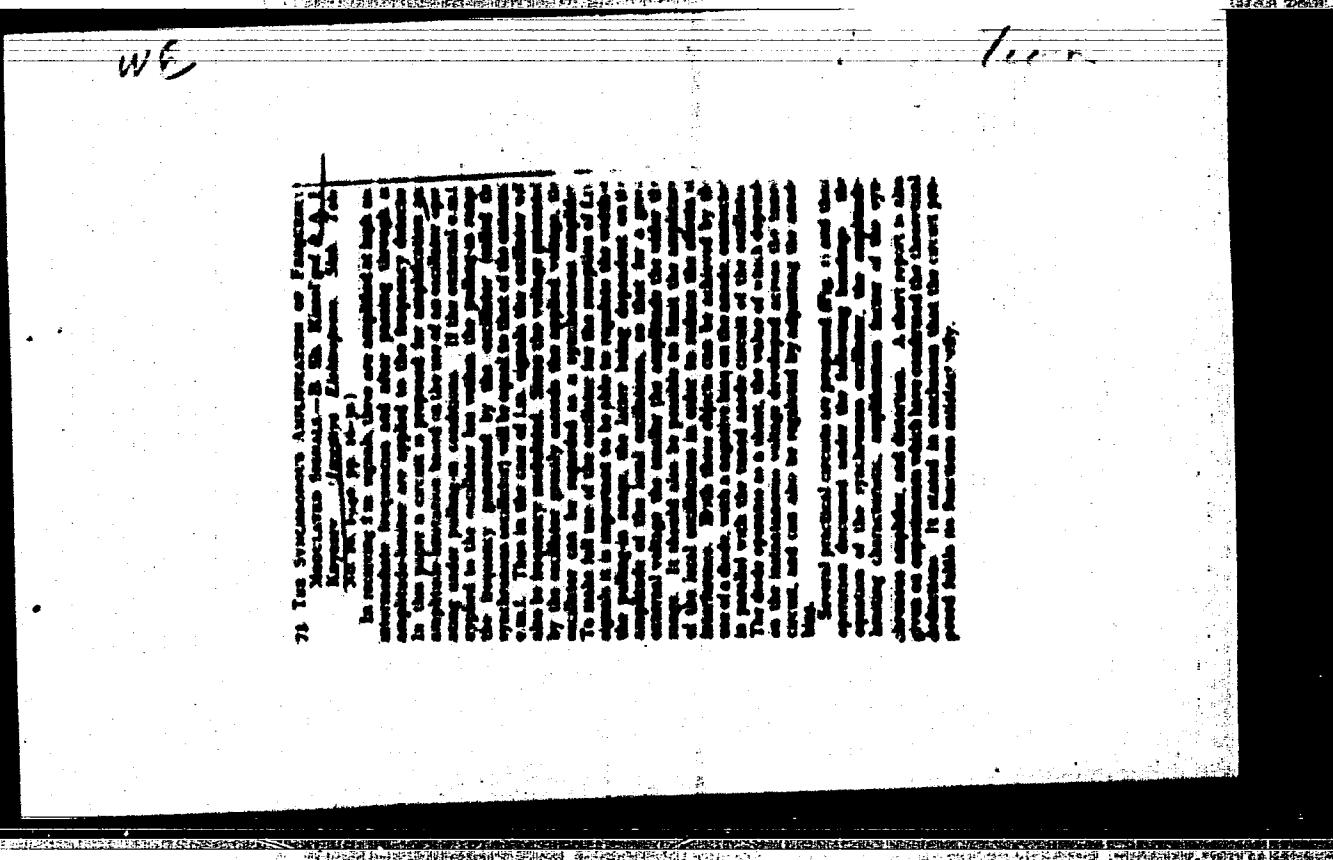
TOBULEVICH, N.I., kand. tekhn. nauk; SAGAN', Iosif Fint. tekhn. nauk;
GARYAZHAI, V.T., kand. tekhn. nauk; KRYAZEV, G.O., kand. tekhn. nauk;

Studying the effect of juice movement velocity on the
coefficient of scale formation in heaters in sugar factories.
Moshch. prom. no.2:132-139 '65. (MFA 18:11)

1. Kysiwskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8



APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

WE

Recognition

The Department of Perspective Mathematics
Survey of Literature) - A D. Kostomarov (Moscow
University, Mat. Tola, No. 1, 1937, pp. 39-43)
including the following Russian works: Survey
of the Field of Interference during Reception (group of
I. V. Pavlyukov - The Effect of Aperture Interference
of V. N. Kostyukov (1939) of 1938 and 114 of 1939) and The
Structure of P. M. Ovchinnikov (Kharkov, No. 2, 1939);
and Levin & Gulyar - An Amplitude Limiter in P. M.
Ovchinnikov (Kharkov, No. 3, 1939; and see page of
ref. 11.

1. KNYAZEV, A.
2. USSR (600)
4. Radio Frequency Modulation
7. Amplitude oscillation regulator in a frequency modulation receiver.
Radio. №.10, 1952
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KNYAZEV, A.

Radio Frequency Modulation

Frequency modulation. Radio No. 4, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KHAYATIY, A.

How the FM receiver works. Radio no. 8:57-60 Ag '53. (MLRA 6:8)
(Radio frequency modulation)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KONYAKOV, A.

How the FM receiver works. Radio no.9:57-61 S '53. (MLRA 6:8)
(Radio frequency modulation)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

~~KHYZHIV, Aleksey Dmitrievich; KARUS', A.P., inzhener-mayor, redaktor;~~
~~Khuzhirov, V.N., chernomicheskiy redaktor~~

[How a radio-telephone functions] Kak rabotaet radiostantsiya.
Moskva, Voennoe izd-vo Min. oborony SSSR, 1954. 214 p.
(Telephone, Wireless) (MIRA 8:3)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

USSR/ Miscellaneous - Book reviews

Card 1/1 Pub. 89 - 40/40

Authors : Knyazev, A.

Title : Book reviews and bibliography

Periodical : Radio 10, page 63, Oct 1954

Abstract : A Soviet book, "Crystal Diodes and Triodes", by E. Ya. Pumper, published by Gosenergoizdat (State Publishing House for Power Engineering) in 1953, is reviewed. A number of errors are listed and the poor style used throughout the book is criticized.

Institution:

Submitted:

KNYAZEV, A. [b.]

USSR/Electronics - Radio stations

Card 1/1 : Pub. 09 - 13/26

Authors : Knynsov, A., and Porudominsky, V.

Title : Technical requirements for radio stations used for dispatcher communications in agriculture

Periodical : Radio 12, 23-24, Dec 1954

Abstract : In view of a number of defects found in the typical "agricultural" radio station "Urozay", its narrow band-pass resulting in interferences, and long-wave range requiring the installation of a complex antenna, the design of an approved type of radio-station for serving the needs of agriculture is discussed. An USW radio relay station, operating on about one hundred various wave-lengths, and associated with a network of over 50 radio-receiving Machine-Tractor stations and other installations, is proposed as the most suitable. Detailed design data relative to improving the operation of the station are suggested.

Institution :

Submitted :

KNYAZEV, A. [b.]

USER/ Electronics - Germanium diodes

Card 1/1 Pub. 89 - 23/28

Authors : Knyazev, A.

Title : Input resistance of germanium diode detectors

Periodical : Radio 4, 50-51, Apr 1955

Abstract : The basic principles and special characteristics of germanium diode detectors are discussed, and graphic formulas are given for calculating the input resistance of detectors used on the type DG-Ts 2, DG-Ts 3, DG-Ts 4, DG-Ts 5, DG-Ts 6, and DG-Ts 7 diodes. Table; graphs; diagrams.

Institution :

Submitted :

КУШНИР, П.В.

КУШНИР, П.В., кандидат технических наук; БУХАНСКИЙ, А.Б., инженер;
ИНЯКИН, А.Д., инженер; ПИУК, Л.А., инженер

"How a radio station for intradistrict communication should be organized."
Response to V.M. Resov's article published in no. 1 of the journal for
1955. Vest. svjazi 15 no.7:13-15 Jl '55. (MLA 8:8)

1. Nachal'nik laboratorii Leningradskogo otdeleniya nauchnoissledovatel'skogo instituta svjazi (for Kushnir).
(Radio stations, Short wave)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KNTAKEV, A.D., inshener

Radio broadcasting on ultra-short waves. Nauka i zhizn' 22 no.8:
17-20 Ag '55.

(MIRA 8:10)

(Radio, Short wave)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

AID P - 5018

Subject : USSR/Electronics
Card 1/1 Pub. 89 - 3/14
Author : Knyazev, A.
Title : Frequency modulator with diode transistors of the DG-Ts type.
Periodical : Radio, #9, 22-23, 8 1956
Abstract : The author presents a connection diagram of a frequency modulator, the operation of which is based on the effect of changes in capacity within the diode point-contact transistor. The author explains in detail the operation of the modulator. One diagram.
Institution: None
Submitted : No date

KHYAZEV, Aleksey Dmitriyevich; KOKOSOV, I.Y., red. NEZHEMITSKAYA, N.P. 06/19/2000 CIA-RDP86-00513R000723330005-8

[How a radio station works] Kak rabotaet radiostantsiya. Issledovaniya i issledovaniya po radioelektronike i radioelektronike. 2-e, ispr. i dop. Moskva, Voen.izd-vo M-va obor. SSSR, 1958. 241 p.
(Radio stations) (XIIA 11:5)

AUTHOR: Knyazev, A.D.

106-58-3-2/19

TITLE: Interaction of a Signal and Interference in an Exponential Detector (Vzaimodeystviye signala i pomekhi v eksponentsiyal'nom detektore)

PERIODICAL: Elektrosvyaz', 1958, Nr 3, pp 11 - 20 (USSR)

ABSTRACT: "Negative suppression", i.e. increase of the ratio of a weaker signal to a stronger signal, in the presence of the stronger signal, has been observed in certain detectors (Refs. 2 and 4). The author determines the conditions under which such negative suppression occurs. The effect of the shape of the detector characteristic is first investigated, assuming that the two modulated signals U_c and U_n at the input have carrier frequencies ω_c (signal) and ω_n (interference), which are nearly equal to each other and that:

$$\frac{U_c}{U_n} = h < 1 .$$

The modulation frequencies Ω_c and Ω_n are not equal. It is
Card1/4

106-58-3-2/19

Interaction of a Signal and Interference in an Exponential Detector

considered that the effect of the load (anode detector) can be disregarded. Assuming that the anode current is a continuous function of the combined input voltage, the anode current can be expressed by MacLaurin's series:

$$\begin{aligned}
 (i_a)_{\Omega_c, \Omega_n} = & \left[\frac{f''(0)}{2!} + \frac{3f^{(IV)}(0)}{4!} \left(\frac{U_n^2}{2} + U_c^2 \right) + \right. \\
 & + \left. \frac{15f^{(VI)}(0)}{4.6!} \left(\frac{U_n^4}{2} + 3U_n^2U_c^2 + \frac{2U_c^4}{2} \right) + \dots \right] m_n U_n^2 \cos \Omega_n t + \\
 & + \left[\frac{f''(0)}{2!} + \frac{3f^{(IV)}(0)}{4!} \left(U_n^2 + \frac{U_c^2}{2} \right) + \right. \\
 & + \left. \frac{15f^{(VI)}(0)}{4.6!} \left(\frac{3}{2} U_n^4 + 3U_n^2U_c^2 + \frac{U_c^4}{2} \right) m_c U_c^2 \cos \Omega_c t \quad (3).
 \right]
 \end{aligned}$$

Card 2/4

106-58-3-2/19

Interaction of a Signal and Interference in an Exponential Detector

The volt-amp. characteristic of the detector is considered as a series of terms of ascending powers of the input voltage u_{Bx} :

$$u_{Bx} = U_n(1 + m_n \cos \Omega_n t) \cos \omega_n t + U_c(1 + m_c \cos \Omega_c t) \cos \omega_c t \quad (1)$$

$$i_a = b_0 + b_1 u_{Bx} + b_2 u_{Bx}^2 + \dots + b_K u_{Bx}^K + \dots + b_n u_{Bx}^n \quad (4)$$

and the ratios of the modulating frequency voltages at the detector output:

$$h_1 = \frac{U_{\Omega_c}}{U_{\Omega_n}}$$

are found for different volt-amp. characteristics by taking different numbers of terms. From this, the suppression coefficients:

$$K_{nc} = \frac{U_{\Omega_c}}{(U_{\Omega_c})U_n=0} \quad \text{and} \quad K_{nn} = \frac{U_{\Omega_n}}{(U_{\Omega_n})U_c=0}$$

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106-58-3-2/19

Interaction of a Signal and Interference in an Exponential Detector

can be calculated. It is shown that if the detector characteristic increases more rapidly than a square law, the weaker signal increases relatively more than the stronger. An exponential detector is analysed as a practical example. It is concluded: 1) If the weak signal is separated by a narrow band filter, the relative increase of the weak signal in the exponential detector compared with linear and square law detectors can be more than 10 db; 2) The number of components (harmonic and combination frequencies), which exceed the level of the fundamental signal at the output of an exponential detector is greater than for linear and square law detectors; 3) The experimental values for the increase of the weak signal using existing valves (6A2P⁻, 6K4P⁻, 6B8, etc.) reach 15 - 20 db. The relative increase of the weak signal reaches 6 - 7 db.

Corresponding Member of the Ac.Sc. USSR V.I. Siforov advised in this work. There are 8 figures and 8 references, 7 of which are Soviet and 1 English.

SUBMITTED: February 2, 1957

AVAILABLE: Library of Congress
Card4/4

1. Frequency modulation detectors-Characteristics 2. Mathematics-
Theory

AUTHOR: Knyazev, A.D. SOV/106-59-1-2/12
TITLE: The Interaction of Two Signals in an Exponential Amplifier (Vzaimodeystviye dvukh signalov v eksponential'nom usilitеле)
PERIODICAL: Elektrosvyaz', 1959, № 1, pp 12-20 (USSR)
ABSTRACT: When two signals pass through a non-linear amplifier, not only do their respective spectra change but the ratio of the amplitudes of the signals is also modified. It is well known that the cross-talk in an amplifier may be reduced by choosing an amplifying valve in which the ratio of the second derivative of the mutual conductance characteristic is small compared with the mutual conductance itself. The present paper is devoted to determining conditions under which the ratio of a weak signal to interference may be increased at the output of a non-linear amplifier compared with the value of the ratio at its input. In the case of an unmodulated signal the sum of carrier and interference at the input to the circuit is given by (1), while the anode current in the valve is given as a function of the applied voltage, as in (2), where f_p is supposed continuous and with continuous derivatives. The expansion in
Card 1/6

SOV/106-59-1-2/12

The Interaction of Two Signals in an Exponential Amplifier

Maclaurin series may be further simplified for a particular valve by (4) as a simple power series. In what follows, the following definitions apply:

$$h_1 = \frac{\text{signal}}{\text{noise}}, \quad K_0 = \frac{(\text{signal in the presence of noise})}{(\text{signal in the absence of noise})}$$

$K_W = (\text{noise in the presence of signal}) / (\text{noise in the absence of signal})$. The latter two ratios are called the coefficients of change of level of signal and noise respectively. The load impedance is supposed equal for the two output components and the degree of the polynomial used in (4) will be successively raised.

Results for square law characteristic are given in (5) with $K_0 = K_W \approx 1$ and for cubic characteristics in (6), (7) and (8). The general conclusions for characteristics which increase with the steepness faster than square law are given in (9) and (10) for the conditions

$b_3 > 0, \quad b_3 < 0$ respectively. The following deductions are made: (1) Only the odd terms of polynomials are significant for the coefficients of change of signal and interference. (2) If the odd terms are positive then at the output a weak signal increases

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SOV/106-59-1-2/12

The Interaction of Two Signals in an Exponential Amplifier

more strongly in the presence of a strong one than a strong one does in the presence of a weak one. If the coefficients are negative then the reverse is observed. (3) The enhancement of a weak signal in the presence of a strong one will be the greater the more steeply the valve characteristic rises. The voltage/current characteristic of an exponential amplifier is that of (11). Substituting (1) in (11) we obtain on the right hand side an exponential multiplier which can be resolved into a series of Bessel functions of imaginary argument. Also introduced are two quantities $Q = 1/h_1$ and q , equal to the noise/signal ratio at the input. Fig 1 shows the variation of Q with q for various values of aU_c , where a is the coefficient of steepness of the exponential characteristic and U_c is the signal voltage. K_n and K_o are given in (14) and K_n , as a function q , is given in Fig 2. It follows from (14) that K_o is greater than K_n , that is to say, a weak signal grows in the presence of a strong interference more than the interference grows in the presence of a weak signal.

Card 3/6 The behaviour of an exponential amplifier may be compared

SOV/106-59-1-2/12

The Interaction of Two Signals in an Exponential Amplifier

with that of a limiting amplifier by using curve 1 in Fig 1 and curve 4 in Fig 2. The author analysed earlier (Ref 2) the behaviour of an exponential detector and found that, although the absolute level of a weak signal grows more quickly in the presence of strong interference with an exponential detector, the enhancement of signal-to-noise ratio is greater in the case of the amplifier. Fig 3 shows how the gain of an exponential amplifier varies with the driving voltage. Eq (18) is the expression for the non-linear distortion of the signal and (19) is an approximate form valid for the condition written below it. When the signal is modulated the depth of modulation is enhanced by the amplifying process in the presence of interference and expressions for K_c and K_w are (21). Eqs (22a) to (22e) give various products found in the output spectrum of signal and interference. Fig 4 shows how they are changed in passage through the amplifier; solid lines refer to a push-pull connection and the dotted lines to a single-ended circuit. Comparison of behaviour of an amplitude limiter is given in Fig 5 from a calculation by

Card 4/6

SOV/106-59-1-2/12

. The Interaction of Two Signals in an Exponential Amplifier

V.A. Kraus. The experimental work was carried out on a triode-connected 6A2 valve for which α varies between 1.5 and 4 with a weak-signal frequency of 34 c/s and a strong interference of 110 c/s. The anode load was a narrow-band R.C. filter tuned to 34 c/s. Signal level and the input were kept constant and measured values of E_a and Q were shown as a function of q in Figs 6 and 7 (curve 1). They agree rather well with calculation for the case $aU_c = 0.95$. The agreement between experiment and theory deteriorates with large and small q and this is explained by the departure of the characteristic from the exponential form. With $q = 12$ dB and more the useful dynamic range of the characteristic is exceeded. Curve 3 of Fig 6 also shows the comparative performance of a grid-current limiting circuit using a 6Zh2P valve. The agreement with theory here is very good. The effect of increasing the mutual conductance characteristic was demonstrated by connecting four 6A2P valves in parallel giving effective value of $a^2 = 4.4$. The corresponding results are shown in curve 2 of Figs 6 and 7. A qualitative check was also made of the behaviour of an

Card 5/6

80V/106-59-1-2/12
The Interaction of Two Signals in an Exponential Amplifier

exponential amplifier at carrier frequencies using a signal of 20 kc/s and interference spaced 1 kc/s from it. Gratitude is expressed to Corresponding Member of Ac.Sc. USSR, V.I. Siforov.

There are 7 figures and 3 Soviet references.

SUBMITTED: August 20, 1957

Card 6/6

ZHIL'NIKOVA, A.V. & KNYAZEV, A.D.

Automatic lamp rooms in Kuznetak Basin mines. Adm.-byt. komb.
ugol'. shakht. no.4:53-57 '61. (MIRA 15:8)

1. Gosudarstvennyy inzhenerno-proyektnyy institut po proyektirovaniyu
shakhtnogo stroitel'stva v Kuzbasse.
(Kuznetak Basin--Mining engineering--Safety measures)

VAZAGOSHVILI, V.I.; KNYAZEV, A.I., starshiy nauchnyy sotrudnik

Measures for the improvement of the present-day order for the delivery of scoured wool. Tekst.prom. 25 no.2:34-36 P '65.
(MIRA 18:4)

1. Ispolnyayushchiy obyazannosti rukovoditelya laboratorii syr'ya i pervichnoy obrabotki shersati TSentral'nogo nauchno-issledovatel'skogo instituta shershtyanoy promyshlennosti (for Vasagoshvili). 2. TSentral'nyy nauchno-issledovatel'skiy institut shershtyanoy promyshlennosti (for Knyazev).

KNYAZEV, A.I., aspirant

Reaction of fine-wool lambs of various constitutional types to improved feeding during the suckling period. Izv. TSKhA no.5; 134-144 '61. (MIRA 14:12)

(Lambs—Feeding and feeds)

TYUTYLIN, Ye.P., kand.tekhn.nauk; KHAIKOV, A.I., inzh.

Comparative indices of the operation of the TTS-1D turbocyclone
and hydrocyclone. Khim.mash. no.416-16 Jl-Ag '62. (MIRA 15:7)
(Separators (Machines))

KHIAZEV, A.I., mladshiy nauchnyy sotrudnik

Quality of fine and half-bred wool of domestic origin. Tekst.
prom. 23 no.6124-26 Je '63. (MIRA 16:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut shcherstyanyoy
promyshlennosti. (Wool--Testing)

KRYAZEV, A.I.

"The Influence of an Increased Level of Nutrition on the Growth
and Development of Fineflailed Lammergeyers of Various Constitutional Types";

dissertation for the degree of Candidate of Agricultural Sciences
(awarded by the Timiryazev Agricultural Academy, 1962)

(*Izvestiya Timiryazevskoy Sel'skokhozyaistvennoy Akademii*, Moscow, No. 2,
1963, pp 232-236)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KVYAZEV, A. K.

Mechanization of finishing and assembling of plastic manufactured articles. Moskva,
Gos. nauch.tekhn. izd-vo khim lit-ry, 1949. 36 p. (55-16858)

TP986.5.E4K6

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

KHYZEV, A.K.; LNOSENKO, A.P.

Determining labor expended per unit of production. Khim. prom.
no. 3:163-165 Ap-Mu '56. (XIIA 9:10)

1. Zavod "Karbopolit", Orehovo-Zuyevo i Moskovskiy inzhenerno-
ekonomicheskiy institut imeni S. Ordzhonikidze.
(Labor productivity)

K
SHATALOV, I.; KNYAZEV, A.; YAKOVLEV, M.

Utilization of production potentialities in the transfer to a
seven-hour workday. Sets. trud 4 no.12:110-114 D '59.
(MIRA 13:6)

1. Nachal'nik, etdela organizatsii truda i sarplaty Beresnikovskogo
asotnotukovogo zavoda (for Shatalev).
2. Nachal'nik etdela truda
i sarplaty Orehovo-Zuyevskogo zavoda "Karbopolit" (for Knyazev).
3. Nachal'nik pedetdela organizatsii truda Moseblsovnarkhoza
(for Yakovlev).

(Chemical industries--Labor productivity)
(Hours of labor)

KNYAZEV A.K.

Discharges caused by wide atmospheric μ 's were in two ionization chambers, L. Rutherford and A. Kynoch, *Dobroly Adad. Nauk. S.S.R.*, 60, 1521-4 (1941). Two spherical ionization chambers with $r = 12$ cm. were filled with A at 3.8 atm. and placed 36-385 cm. apart in a trapezoid which measured 2.4 m. on 8 sides and 3 m. on the other. A G.M. tube with a cross-sectional area of 300 sq. cm. was at each corner of the trapezoid. Coincidences were observed between the 4 G.M. tubes and one or both chambers; a photographic record of the amplitude pulses also gave data on the approx. no. of relativistic particles taking part in each wide shower. There

were 3.06 ± 0.11 coincidences with one chamber per hr., and 0.30 ± 0.09 with both chambers, for showers of ~ 67 particles. There were $\sim 0.38 \pm 0.06$ random coincidences with one chamber per hr. for 45-particle showers. The figures given for heavier showers are lower. There were 17.4 ± 0.6 quadruple coincidences per hr. in the G.-M. tubes alone. Coincidences with one chamber may be due to narrow showers, weight effects, or fusion fragments.

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STATE-SEA DEVELOPMENT LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

■ Nuclear Physics - Cosmic Radiation. Apr 1948
Nuclear Physics - Ionization Chambers

"Impulses in Two Ionized Chambers Caused by Wide
Atmospheric Showers at an Altitude of 3,060 Meters,"

A. Baranov, A. E. Ingazov, Phys Inst Acad
A. Radaev, Acad Sci U.R., 9 pp.

See Draper 1 Secret File" Vol III, No 1

Wide impulses, coincident in time, in two
ionization chambers connected with wide atmospheric
showers. Established for first time that various
coincident impulses in both chambers were quite
common as a rule. Consequently, these impulses
are frequent as a rule.

Nuclear Physics - Cosmic Radiation

(Contd.)

Not be fully explained by the passage of in
approximately equal number of fast particles from
wide, dense atmospheric showers through both
ionization chambers. This established the importance
of nuclear electromagnetic processes in wide showers.
Discusses various hypotheses which might explain
the observed phenomena. Submitted 14 Jul 48.

28/5/2000

KNTAEV, A.M., imsh.

Investigation of hydraulic resistance of ash sluices using
radioactive isotopes. Inv. vys. ucheb. zav.; energ. no. 2:58-
65 p '58. (MIRA 11:7)

1. Moskovskiy ordena Lenina energeticheskiy institut.

(Ash disposal)
(Hydraulics)
(Radioactive tracers)

KIVAZEV, A.M.

Experimental investigation of hydraulic resistance of penstock
and sluices. Nauch.dokl.vys.shkoly; energ. no.3:165-171 '58.
(MIRA 12:1)

1. Rekomendovano kafedroy teplovых elektricheskikh stantsiy
Moskovskogo energeticheskogo instituta.
(Hydraulics)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

KHYZAEV, A. M., Candidate Tech Sci (dirs) -- "Experimental investigation of the hydraulic resistances of the pressure ash-and-slag ducts of electric power stations".
Moscow, 1959. 17 pp (Min Higher Educ USSR, Moscow Order of Lenin Power Engineering Inst), 150 copies (KL, No 22, 1959, 115)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723330005-8

YAKIMOV, L.K., doktor tekhn.nauk; TUMANOV, N.Ye., kand.tekhn.nauk; KNYAZEV,
A.M., kand.tekhn.nauk

Design of the ash and slag conducting pressure pipelines of electric
power plants. Elek.sta.33 no.1:14-18 Ja '62. (MIRA 15:3)
(Ash disposal)

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CIA-RDP86-00513R000723330005-8"

GIRSHOV'D, V.Ya., kand.tekhn.nauk; KNYAZEV, A.M., kand.tekhn.nauk; BAKHUSOV,
V.N., inzh.

Diagram of cycles for the T-100-130 turbine plant. *Teplogenergetika*
(MIRA 15:9)
9 no.10:88-91 0 '62.
(Sverdlovsk--Turbines—Design and construction)

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CIA-RDP86-00513R000723330005-8

GIRSHFEL'D, V.Ya., kand. tekhn. nauk; BANHUSOV, V.N., inzh.;
KNYAZEV, A.M., kand. tekhn. nauk

Optimum value of α in a heat and electric power plant.
Teploenergetika 11 no. 5:18-21 My'64. (MIRA 17:5)

1. Moskovskiy energeticheskiy institut.

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KNYAZEV, A. N.

Country : USSR
Category: Human and Animal Physiology. Internal Secretion.
Thyroid Gland

Abs Jour: Rzhdniol., No 19, 1958, 89-99

Author : Knyazev, A.N.
Inst : Molotovsk Medical Institute
Title : Morphological Manifestation of Compensatory Processes
in the Thyroid Gland in Endemic Goiter

Orig Pub: Tr. Molotovsk. Inst. in-ta, 1957, vyp. 26, 103-109

Abstract: The thyroid gland (TG) of 300 patients operated for goiter was investigated. A compensatory hyperplasia of the TG was noted in the form of a diffuse or insular spread of the interfollicular epithelium. Follicles with colloid appeared in such islands and

Card : 1/2

VIZEN, E.M.; KNYAZEV, A.N.

Case of laboratory infection in man with the virus of
tick-borne encephalitis. Zbir. nauv. i psich. 62 no.3:
(MIRA 15:3)
333-338 '62.

1. Kafedra nervykh bolezney (zav. - prof. E.M. Vizsen)
i prosekturna (zav. - dotsent A.N. Knyazev) Permskoy
gorodskoy infektsionnoy bol'niitey.
(ENCEPHALITIS)
(TICKS AS CARRIERS OF DISEASE)

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CELLERMAN, Ya.M., kand. biolog. nauk, assistant; LITVINENKO, L.A., aspirant;
KRIAZEV, A.N., student

Stimulating tomato growth with repeated action of sublethal
temperatures on the roots. Iss. TSKHA no.1:38-48 '63.
(MIRA 16:7)

(Plants, Effect of soil temperature on)
(Tomatoes)

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CIA-RDP86-00513R000723330005-8"